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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/936,344	09/24/1997	PAUL MICHAEL EMBREE	080398.P115 9648	
7	590 05/17/2006		EXAM	INER
BLAKELY SOKOLOFF TAYLOR AND ZAFMAN 12400 WILSHIRE BOULEVARD			MICHALSKI, JUSTIN I	
SEVENTH FLOOR LOS ANGELES, CA 90025			ART UNIT	PAPER NUMBER
			2615	

DATE MAILED: 05/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summer.	08/936,344	EMBREE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Justin Michalski	2615			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 28 De	ecember 2005.				
	action is non-final.				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>2-4 and 6-15</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>2-4 and 6-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	atent Application (PTO-152)				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 28 December 2005 have been fully considered but they are not persuasive.

Applicant argues page 5 that Oxford docs not disclose, either expressly or inherently, at least (1) providing a plurality of memory banks where each memory bank is accessible to the first and second processors for operations selected from the group comprising read and write operations, (2) storing subsets of said audio data in the plurality of memory banks where the subsets correspond to different groups of audio channels, and (3) a first processor and a second processor coupled to said first and second busses, respectively. This is not persuasive as (1) Oxford clearly discloses a plurality of memory banks in memory devices (Fig. 1, 104) which are accessible to the first and second processors (Col. 4, lines 21-22) for read and write operations. (2) Oxford clearly discloses storing subsets of audio data in the plurality of memory banks wherein the subsets correspond to different groups of audio channels, as it is inherent that Oxford discloses processor 103 as an audio processor (Col. 4, line 22) and further discloses different audio channels in Fig. 3) and memory 104 stores information for audio processor 103 (Col. 4, lines 20-22). (3) Although a first processor and a second processor coupled to said first and second busses is not found in the claim language of claim 3 Oxford clearly discloses two busses connecting each of processors 102 and 103 to the system 101.

Applicant further argues, page 7, regarding Claims 4 and 8 that Van Nostrand is not combinable since Van Nostrand is suitable to image data. This is not persuasive as Van Nostrand discloses on page 4, line 26 that the invention is not limited to image data but more broadly related to "data elements". Both Oxford and Van Nostrand relate to processing information from a plurality of memory devices.

Applicant further argues, page 8, regarding Claims 12 and 14, that Shores does not disclose interleaving of audio data. This is not persuasive as Shores clearly discloses interleaving audio data (Col. 10, lines 17-29).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 2, 3, 6, 7, 9, 13, and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Oxford (US Patent 5,577,044).

Regarding Claim 3, Oxford discloses a method for allocating real-time data from a plurality of audio channels in a system having a first processor and a second processor, the method comprising: providing a plurality of memory banks of semiconductor memory devices (104), each memory bank being accessible to the first (102) and second (103) processors for operations selected from the group comprising read and write operations (col. 4, lines 20-22); and storing subsets of said audio data in the plurality of memory banks, the subsets corresponding to different groups of audio channels (memory 104 stores information for audio processor 103 (Col. 4, lines 20-22) Fig. 3 discloses different audio channels).

Regarding Claim 6, Oxford discloses a system having first and second buses for processing real-time audio data from a plurality of audio channels, the system comprising: a first processor (102) and a second (103) processor coupled to said first and second busses (bus connecting 102 and 103 to bus 101), respectively; a plurality of memory banks (104) of semiconductor memory devices coupled to said first and second buses for storing said audio data (Col. 4, lines 17-18), said plurality of memory banks being accessible to the first and second processors for operations selected from the group comprising read and write operations (RAM or dynamic storage 104; col. 4, lines 17-21), said plurality of memory banks storing subsets of audio data (Col. 4, lines 17-24), said subsets corresponding to different groups of audio channels (Fig. 3 discloses different audio channels); and a plurality of selectors coupled said first and second

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buses to select said memory banks for access by one of said first and second processors (it is inherent that dynamic memory such as 104 will read or written based on a selector in processors 102 and 103 in order to store or retrieve information in memory 104).

Regarding Claims 2 and 7, it is inherent that dynamic memory such as 104 will read or written based on a selector in processors 102 and 103 in order to store or retrieve information in memory 104.

Regarding Claim 9, Oxford discloses 104 is dynamic memory (Col. 4, lines 13-25).

Regarding Claims 13 and 15 it is inherent that processors (102 and 103) will perform read operations and write operations on the memory banks in order to write and read data to and from the memory banks.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oxford as applied to claims 1 and 6 above in view of Van Nostrand (WO 90/07184).

Oxford discloses a method and system as stated apropos of claims 1 and 6 respectively but does not disclose one subset of said audio data corresponds to even-

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numbered audio channels and one other subset of said audio data corresponds to odd-numbered audio channels. Both Oxford and Van Nostrand discloses reception and transmission of data. Van Nostrand discloses separating data into Odd and Even data (Fig. 1) in order to provide a method for handling high speed data in an apparatus of having a plurality of banks of memory (page 3 lines 1-5). Therefore it would have been obvious to one of ordinary skill in the art that the time the invention was made to use odd and even data transmission to provide a way of transmitting data at a high rate of speed as taught by Van Nostrand.

6. Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oxford as applied to claims 1 and 6 above in view of Fukami et al. (Hereinafter "Fukami") (US Patent 5,313,339).

Oxford discloses a method and system as stated apropos of claims 1 and 6 respectively but does not disclose storing the subsets in an interleaving manner. Fukami also discloses a method for transmitting and processing of data at a high rate of speed including storing right and left channels of digital audio in an interleaved process (Col. 4, lines 17-26) in order to processing signals at a high rate of speed. Therefore it would have been obvious to one of ordinary skill in the art that the time the invention was made to use interleaving of data in order to transmit and process data at a high rate of speed as taught by Fukami.

7. Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Oxford as applied to claims 1 and 6 above in view of Shores (US Patent 5,194,996).

Oxford discloses a method and system as stated apropos of claims 1 and 6 respectively but does not disclose storing one of the subsets of audio data in one of the memory banks and reading data from a second memory bank. Shores discloses interleaved audio data that is stored in one memory half and recovered from a second half of memory (Col. 10, lines 17-29). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to store one of the subsets of audio data in one of the memory banks and reading data from a second memory bank to interleave the audio data to enhance the decoding and reproduction as taught by Shores (Col. 9, lines 1-3).

Conclusion

- 8. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2615.
- 9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Justin Michalski whose telephone number is (571)272-

7524. The examiner can normally be reached on M-F 7-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vivian Chin can be reached on (571)272-7848. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

VIVIAN CHIN

SUPERVISORY PATENT EXAMINER

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